



Climate and group B streptococci colonisation during pregnancy: Present implications and future concerns

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Year: 2011
Journal: Bjog : An International Journal of Obstetrics and Gynaecology. 118 (11): 1396-1400

Abstract:

The available evidence on the impact of climate on human bacterial infections is very limited. We studied the impact of climatic factors on maternal group B streptococci (GBS) colonisation during pregnancy in Barcelona, Spain, in the period 2001-2005. Averages of daily temperature, relative humidity, and heat index (perceived temperature) over weeks 32-36 of gestation, measured by the closest of three meteorological monitors to the maternal place of residence were assigned to each subject. Logistic regression models were developed to extract adjusted odds ratios for continuous and categorical (quartiles) exposures. We detected increased risks of GBS colonisation in higher ambient temperatures and humidity.

Source: <http://dx.doi.org/10.1111/j.1471-0528.2011.03044.x>

Resource Description

Communication: ☒

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

Communication Audience: ☒

audience to whom the resource is directed

Health Professional

Early Warning System: ☒

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure : ☒

weather or climate related pathway by which climate change affects health

Meteorological Factors, Temperature, Other Exposure

Climate Change and Human Health Literature Portal

Other Exposure: Heat index

Geographic Feature: ☒

resource focuses on specific type of geography

None or Unspecified

Geographic Location: ☒

resource focuses on specific location

Non-United States

Non-United States: Europe

European Region/Country: European Country

Other European Country : Spain

Health Impact: ☒

specification of health effect or disease related to climate change exposure

Developmental Effect, Infectious Disease, Other Health Impact

Developmental Effect: Reproductive

Other Health Impact: group B streptococci (GBS) colonisation

Medical Community Engagement: ☒

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

Mitigation/Adaptation: ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

Population of Concern: A focus of content

Population of Concern: ☒

populations at particular risk or vulnerability to climate change impacts

Pregnant Women

Resource Type: ☒

format or standard characteristic of resource

Research Article

Timescale: ☒

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content